## FULL MARKS: 70

## TIME - 3 HRS

Answer any six quextions including Question 1 which is compulsory

And the second s	Answer all the following questions  (a) How can you verify a digital signature?  (b) What is multicast socket?  (c) How forwarding is different than routing?  (d) What is server side scripting?  (e) What is the meaning of "in" in the URL "http://www.goidirectory.nic.in"?  (f) How FTP is different from HTTP?  (g) What is the utility of datagram?  (h) Explain each term in the phrase 10 Base 5.  (i) The address 11011101 11011111 1411110 11011110 belongs to which class?  (j) j) Differentiate between socket and port?	2x10
2.(a) (b)	Explain the TCP/IP protocol suite and how it is different from OSI model.  Explain datagrams and virtual circuits with respect to packet switching network.	5
3.(a)	How remote logging works in terminal networking?	5
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(b)	Explain RSA algorithm. Find the ciphertext of VSS,	5
4,(a)	Describe the important functions of network layer. What do you mean by subnetting?	5
(b)	Explain about three way handshaking procedure for establishing TCP connection	5
5.(a)	Give a detailed description of token ring protocol. Why would this protocol be inefficient if a LAN had a huge perimeter?	5
(b)	Discuss the Internet addressing mechanism. How DNS is useful?	5
6.(a)	Explain how reliable delivery of entire message is done in transport layer.	5
(b)	Give a detailed description of public key cryptosystems.	5
7.(a)	Why there is an upper limit on modern speed? Explain voice grade modern and cable modern.	5
(b)	Explain the working procedure of frame relay.	5
8.	Write short notes on a) Repeater b) Hub c) Bridge d) Network throughput	10
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